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Inhalt/Contents

Baues, H.J.: Der Pontryagin-Ring von Quotienten eines Torus 221

Bojanic, R., Seneta, E.: A Unified Theory of Regularly Varying Sequences 91

Brown, B.M., Evans, W.D.: On the Limit-Point and Strong Limit-Point Classification of $2n$-th Order Differential Expressions with Wildly Oscillating Coefficients . . . 351

Clarke, R.J.: Projective Resolutions for a Certain Class of Groups 329

Davey, B.A.: Sheaf Spaces and Sheaves of Universal Algebras 275

Denker, M.: On Strict Ergodicity 231

Elman, R., Lam, T.-Y., Prestel, A.: On Some Hasse Principles over Formally Real Fields 291

Ennola, V.: Conjugate Algebraic Integers on a Circle with Irrational Center 337

Evans, W.D., s. Brown, B.M. 351

Fehér, F., Gaşpar, D., Johnen, H.: Der Konjugiertenoperator auf rearrangement-invarianten Funktionenräumen 129

Floret, K.: $\mathscr{L}_1$-Räume und Liftings von Operatoren nach Quotienten lokalkonvexer Räume 107

Frehse, J.: A Discontinuous Solution of a Mildly Nonlinear Elliptic System 229

Gaşpar, D., s. Fehér, F., *et al.* 129

Gekeler, E.: Long-Range and Periodic Solutions of Parabolic Problems 53

Indlekofer, K.-H.: Über die Invarianz der absoluten Konvergenz bei konformer Abbildung 171

Johnen, H., s. Fehér, F., *et al.* 129

Kaniuth, E.: Topology in Duals of *SIN*-Groups 67

Krauss, P.: On Quasi Primal Algebras 85

Lam, T.-Y., s. Elman, R., *et al.* 291

Lesky, P.: Biorthogonalität von Polynomen 181

Linden, H.: Starke Konvergenz im verallgemeinerten Sinne und Spektra 205

Meyer-Nieberg, P.: Zur schwachen Kompaktheit in Banachverbänden 303

Pennington, E.A.: On Products of Finite Nilpotent Groups 81

Praeger, C.E.: Sylow Subgroups of Transitive Permutation Groups 179

Prestel, A., s. Elman, R., *et al.* 291

Ruscheweyh, S.: Eine Invarianzeigenschaft der Basilevič-Funktionen 215

Salow, E.: Einbettung von Hjelmslev-Gruppen in orthogonale Gruppen über kommutativen Ringen 143

Seneta, E., s. Bojanic, R. 91

Sperner, E. jr.: Zur Symmetrisierung von Funktionen auf Sphären 317

Veselić, K., Weidmann, J.: Existenz der Wellenoperatoren für eine allgemeine Klasse von Operatoren 255

Vogt, R. M.: Homotopy Limits and Colimits 11

Voigt, D.: Endliche Hopfalgebren 189

Wahl, W. von: Einige neue innere Abschätzungen für nichtlineare elliptische Gleichungen und Systeme 119

Weidmann, J., s. Veselić, K. 255

Wright, Ch. R. B.: On Internal Formation Theory 1

Indexed in Current Contents

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A. General

Papers submitted (in duplicate please) for publication may be written in English, French or German. A **summary** for Zentralblatt für Mathematik (including key words for classification) should be attached.

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Examples

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Tate, J.T.: *p*-Divisible Groups. In: Proceedings of a Conference on Local Fields (Driebergen 1966), pp. 158–183. Berlin-Heidelberg-New York: Springer 1967

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2. Formulae

Letters in formulae are normally printed in italics, figures in ordinary typeface.
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Underlining for special alphabets and typefaces should be done according to the following code:

single underlining:	small letter
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blue:	Gothic
green:	Script
violet:	the numerals 1 and 0 (to distinguish them from the small letter *l* and the capital letter *O*)

The following are frequently confused:

$\circ, o, O, 0$; $\cup, \mathfrak{u}, \bigcup, U$; $\times, x, X, \kappa$; $\vee, v, \nu$; $\theta, \Theta, \phi, \varphi, \Phi, \varnothing$; ψ, Ψ; $\varepsilon, \in$;

a', a^1; the symbol *a* and the indefinite article a;

also the handwritten Roman letters:

c, C; e, l; I, J; k, K; o, O; p, P; s, S; u, U; v, V; w, W; x, X; z, Z;

Please take care to distinguish them in some way.

C. Examples

1. Special alphabets or typefaces

Script	$\mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{S}, \mathscr{T}, \mathscr{U}, \mathscr{V}, \mathscr{W}, \mathscr{X}, \mathscr{Y}, \mathscr{Z}$
	$a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z$
Sanserif	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
	a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
Gothic	$\mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{I}, \mathfrak{J}, \mathfrak{K}, \mathfrak{L}, \mathfrak{M}, \mathfrak{N}, \mathfrak{O}, \mathfrak{P}, \mathfrak{Q}, \mathfrak{R}, \mathfrak{S}, \mathfrak{T}, \mathfrak{U}, \mathfrak{V}, \mathfrak{W}, \mathfrak{X}, \mathfrak{Y}, \mathfrak{Z}$
	$\mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{x}, \mathfrak{y}, \mathfrak{z}$
Boldface	**A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z**
	a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
Special Roman	$\mathbb{A}, \mathbb{B}, \mathbb{C}, \mathbb{D}, \mathbb{E}, \mathbb{F}, \mathbb{G}, \mathbb{H}, \mathbb{I}, \mathbb{J}, \mathbb{K}, \mathbb{L}, \mathbb{M}, \mathbb{N}, \mathbb{O}, \mathbb{P}, \mathbb{Q}, \mathbb{R}, \mathbb{S}, \mathbb{T}, \mathbb{U}, \mathbb{V}, \mathbb{W}, \mathbb{X}, \mathbb{Y}, \mathbb{Z}, \mathbb{1}$
Greek	$\Gamma, \Delta, \Theta, \Lambda, \Xi, \Pi, \Sigma, \Phi, \Psi, \Omega$
	$\alpha, \beta, \gamma, \delta, \varepsilon, \zeta, \eta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, o, \pi, \rho, \sigma, \tau, \upsilon, \varphi, \phi, \chi, \psi, \omega$
Greek Sanserif	A, B, Γ, Δ, E, Z, H, Θ, I, K, Λ, M, N, Ξ, O, Π, P, Σ, T, Y, Φ, X, Ψ, Ω
	α, β, γ, δ, ε, ζ, η, ϑ, θ, ι, κ, λ, μ, ν, ξ, ο, π, ρ, σ, ς, τ, υ, φ, χ, ψ, ω

(Indices and superscripts are not available)

2. Notations

preferred form	instead of	preferred form	instead of
$A^*, \tilde{b}, \gamma', \mathfrak{v}, \mathbf{v}$	$\bar{A}, \bar{b}, \bar{\gamma}, \vec{v}$	$\exp(-(x^2+y^2)/a^2)$	$e^{-\frac{x^2+y^2}{a^2}}$
lim sup, proj lim	$\overline{\lim}, \underleftarrow{\lim}$	$\dfrac{\cos(1/x)}{(a+b/x)^{1/2}}$	$\dfrac{\cos\dfrac{1}{x}}{\sqrt{a+\dfrac{b}{x}}}$
$f: A \to B$	$A \xrightarrow{f} B$		
$\sum_{n=1}^{\infty}$	$\sum\limits_{n=1}^{\infty}$		

Die Grundlehren der mathematischen Wissenschaften Band 190

Carl Faith
Algebra: Rings, Modules and Categories I

By **Carl Faith,**
Rutgers University,
New Brunswick, N.J., USA
XXIII, 565 pages. 1973
Cloth DM 54,–
ISBN 3-540-05551-7

Prices are subject to change without notice

This book is designed to introduce students to the basic ideas and operations of rings, modules, and categories and to bring them to the frontiers of research as rapidly as possible. The reader is forewarned not to be deceived by the elementary beginning, including a foreword on set theory and a first chapter on rudimentary group theory and category theory. There are more than 500 exercises.

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Inhalt

Davey, B. A.: Sheaf Spaces and Sheaves of Universal Algebras 275

Elman, R., Lam, T.-Y., Prestel, A.: On Some Hasse Principles over Formally Real Fields 291

Meyer-Nieberg, P.: Zur schwachen Kompaktheit in Banachverbänden 303

Sperner, E. jr.: Zur Symmetrisierung von Funktionen auf Sphären 317

Clarke, R. J.: Projective Resolutions for a Certain Class of Groups 329

Ennola, V.: Conjugate Algebraic Integers on a Circle with Irrational Center 337

Brown, B. M., Evans, W. D.: On the Limit-Point and Strong Limit-Point Classification of $2n$-th Order Differential Expressions with Wildly Oscillating Coefficients 351

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